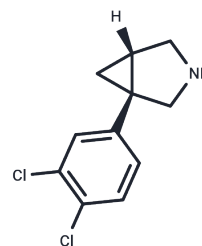


Amitifadine free base

Chemical Properties

CAS No. :	410074-73-6
Formula:	C ₁₁ H ₁₁ Cl ₂ N
Molecular Weight:	228.12
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Amitifadine(DOV-21947, EB-1010) is an inhibitor of the so-called triple reuptake or serotonin-norepinephrine-dopamine reuptake inhibitor (SNDRI) and is an antidepressant drug candidate. Amitifadine reduces binge drinking and negative affect in an animal model of co-occurring alcoholism and depression symptomatology.
Targets(IC50)	Others,Dopamine Receptor,Serotonin Transporter

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3837 mL	21.9183 mL	43.8366 mL
5 mM	0.8767 mL	4.3837 mL	8.7673 mL
10 mM	0.4384 mL	2.1918 mL	4.3837 mL
50 mM	0.0877 mL	0.4384 mL	0.8767 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Levin ED, Wells C, Johnson JE, Rezvani AH, Bymaster FP, Rose JE. Amitifadine, a triple monoamine re-uptake inhibitor, reduces nicotine self-administration in female rats. *Eur J Pharmacol.* 2015 Oct 5;764:30-7. doi: 10.1016/j.ejphar.2015.06.041. Epub 2015 Jun 20. PubMed PMID: 26101069.

Miller LL, Leitel MD, Banks ML, Blough BE, Negus SS. Effects of the triple monoamine uptake inhibitor amitifadine on pain-related depression of behavior and mesolimbic dopamine release in rats. *Pain.* 2015 Jan;156(1):175-84. doi: 10.1016/j.pain.000000000000018. PubMed PMID: 25599313; PubMed Central PMCID: PMC4351716.

Bymaster FP, Chao P, Schulze H, Tran PV, Marshall RD. Biopharmaceutical characterization, metabolism, and brain penetration of the triple reuptake inhibitor amitifadine. *Drug Metab Lett.* 2013 Mar;7(1):23-33. PubMed PMID: 23826879.

Warnock KT, Yang AR, Yi HS, June HL Jr, Kelly T, Basile AS, Skolnick P, June HL. Amitifadine, a triple monoamine uptake inhibitor, reduces binge drinking and negative affect in an animal model of co-occurring alcoholism and depression symptomatology. *Pharmacol Biochem Behav.* 2012 Nov;103(1):111-8. PubMed PMID: 22884707; PubMed Central PMCID: PMC3537915.

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